# Cytometer Performance Report

| | | | |
|---|---|---|---|
| Cytometer: | FACSCantoII | User: | Administrator |
| Cytometer Name: | FACSCantoII | Institution: | N/A |
| Serial Number: | V33896201821 | Software: | BD FACSDiva 8.0.2 |
| Input Device: | Carousel | Date: | 05/28/2020 10:01 AM |
| Tube Loaded Manually: | Yes | Cytometer Baseline: | 02/04/2020 09:45 AM |
| Cytometer Configuration: | Euroflow 3-laser, 8-color (4-2-2) | P/F: | Pass |

## Setup Beads

| | | | |
|---|---|---|---|
| Bead Product: | CST Setup Beads | Part #: | 910859 |
| Lot ID: | 80996 | Expiration Date: | 04/30/2020 (Expired) |
| Bead Lot Information: | Available | | |

## Detector Settings

| Laser | Detector | Parameter | Target Value | Actual Target Value | % Difference Target Value | Bright Bead % Robust CV | Mid Bead Median Channel | Mid Bead % Robust CV |
|---|---|---|---|---|---|---|---|---|
| Blue | FSC | FSC | 125000 | 124121 | -1 | 2.60 | 124174 | 2.59 |
| Blue | F | SSC | 125000 | 123548 | -2 | 2.13 | 124235 | 2.10 |
| Blue | E | FITC | 15892 | 15240 | -5 | 2.92 | 331 | 21.09 |
| Blue | D | PE | 29999 | 29259 | -3 | 2.10 | 638 | 15.62 |
| Blue | B | PerCP-Cy5-5 | 43732 | 43239 | -2 | 3.81 | 1160 | 20.84 |
| Blue | A | PE-Cy7 | 30845 | 30658 | -1 | 6.24 | 583 | 42.15 |
| Red | C | APC | 46112 | 44907 | -3 | 2.56 | 1580 | 12.01 |
| Red | A | APC-Cy7 | 30458 | 29782 | -3 | 2.43 | 787 | 11.83 |
| Violet | B | V450 | 7918 | 7571 | -5 | 4.30 | 432 | 12.79 |
| Violet | A | V500 | 32171 | 30445 | -6 | 4.07 | 712 | 10.28 |

## Detector Settings (Continued)

| Laser | Detector | Parameter | Dim Bead Median Channel | Dim Bead % Robust CV | PMTV | Δ PMTV | Qr | Br | P/F |
|---|---|---|---|---|---|---|---|---|---|
| Blue | FSC | FSC | 17305 | 11.76 | 631 | 10 | N/A | N/A | Pass |
| Blue | F | SSC | 56767 | 1.49 | 570 | 11 | N/A | N/A | Pass |
| Blue | E | FITC | 60 | 67.07 | 548 | 5 | 0.0179 | 124 | Pass |
| Blue | D | PE | 133 | 49.42 | 555 | 7 | 0.1252 | 175 | Pass |
| Blue | B | PerCP-Cy5-5 | 214 | 50.41 | 662 | 6 | 0.0086 | 42 | Pass |
| Blue | A | PE-Cy7 | 108 | 105.34 | 705 | 7 | 0.0103 | 19 | Pass |
| Red | C | APC | 379 | 24.56 | 586 | 2 | 0.0249 | 112 | Pass |
| Red | A | APC-Cy7 | 173 | 28.43 | 558 | 2 | 0.0057 | 935 | Pass |
| Violet | B | V450 | 66 | 56.16 | 459 | 1 | 0.0510 | 1780 | Pass |
| Violet | A | V500 | 105 | 31.06 | 474 | 0 | 0.0231 | 377 | Pass |

## Specifications

| | |
|---|---|
| PMTV Delta from baseline: | 50 (BD) |
| Violet Laser Primary Channel Bright Bead %Robust CV: | 6.00 (Recommended) |
| Blue Laser Primary Channel Bright Bead %Robust CV: | 6.00 (Recommended) |
| Red Laser Primary Channel Bright Bead %Robust CV: | 6.00 (Recommended) |

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## Laser Settings

| Laser | Power (mW) | Power Spec. (mW) | Current (mA) | Current Guidelines (mA) | Delay (Trigger on FSC) | Delay (Trigger on Fluorescence) | Area Scaling Factor |
|---|---|---|---|---|---|---|---|
| Violet | 59.55 | 47.98 - 71.98 | N/A | N/A | -32.92 | -32.11 | 1.01 |
| Blue | 20.35 | 16.27 - 24.41 | 1.27 | 0.99 - 1.49 | 0.00 | 0.00 | 1.43 |
| Red | 16.23 | 13.60 - 20.40 | N/A | N/A | 29.18 | 30.03 | 1.19 |

Window Extension: 7.00
FSC Area Scaling Factor: 0.88

## Threshold

Threshold (FSC): 9551

## Fluidics

FACSFlow Pressure: 3.90 Sample Pressure: 3.60
Spec.: 3.80 - 4.00

Comments